

LABEL
ACADEMY

MASTER CLASS

FLEXIBLE PACKAGING



BakPac
Sustainable • Flexible • Packaging

LAMINATING AND COATING

MATT BURTON - ABG SALES DIRECTOR

&

HARRY BAKER - BAKPAC SALES AND OPERATIONS

OUR FLEXPACK JOURNEY

omega
Systems

digilam 330
Narrow web film laminating system for flexible packaging

abg
International

abg
international

70 YEARS
1954 - 2024

Flexpack
digital laminator

abg
International

The Flexpack has been specifically designed for laminating narrow web packaging materials. The laminating films used are pre coated with adhesive and this process does not involve wet coating. Servo drives for perfect tension control.

Specification

- 700mm Product unwind with servo drive, webguide and splicing table
- 700mm Laminate unwind with servo drive, webguide and splicing table
- Heated lamination nip roller for thermally activating laminate adhesive
- Product rewind with lay on roller

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International





EQUIPMENT AND MACHINERY FOR LAMINATING AND COATING



LAMINATING TYPES AND PROCESSES

Advantages

Challenges

Thermal lamination (available from)

Clean and minimal post curing

Speed in comparison to other lamination types

Rapid time to market

Cost of laminate

Dry Bond (available from)

(printing adhesive curing and laminating with heat and pressure)

Water based - No solvents required with minimal post curing time

Water based - Speed and bond strength only suitable to certain industries

Solvent based - High bond strength and minimal post curing

Solvent based - Solvents and equipment need ATEX (hoods etc)

Solvent less lamination – Cure time

Speed and bond strength

Post curing time – longer time needed for bonding

UV (available from)

Speed, ease of use and cost effective

Limited usage in flexpack space (due to migration issues from UV initiators)

E-beam (available from)

High speed, cross linking, durability

Cost and complex capex (beta radiation)

COATING TECHNIQUES AND APPLICATIONS

Advantages

Challenges

Solvent (available from)

Fast and food safe

Solvent based environmental considerations , ATEX (hoods for machine etc)

UV (available from)

Simple and relatively low running cost

Not suitable migration issues. Challenges surface cure (may require inert UV for optimum surface cure)

High speed

Water based (available from)

Environmentally friendly – biodegradable. No need for solvent reclamation equipment

Slow in comparison to solvent due to drying time and a need for dryers. High energy usage

E-beam (available from)

Resolve issues links adhesion certain substrates

Capital equipment cost

High speed – (+1000ft) a minute

High gloss value and durable

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QUALITY CONTROL AND TROUBLESHOOTING A CONVERTERS PERSPECTIVE

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WHAT'S NEXT?

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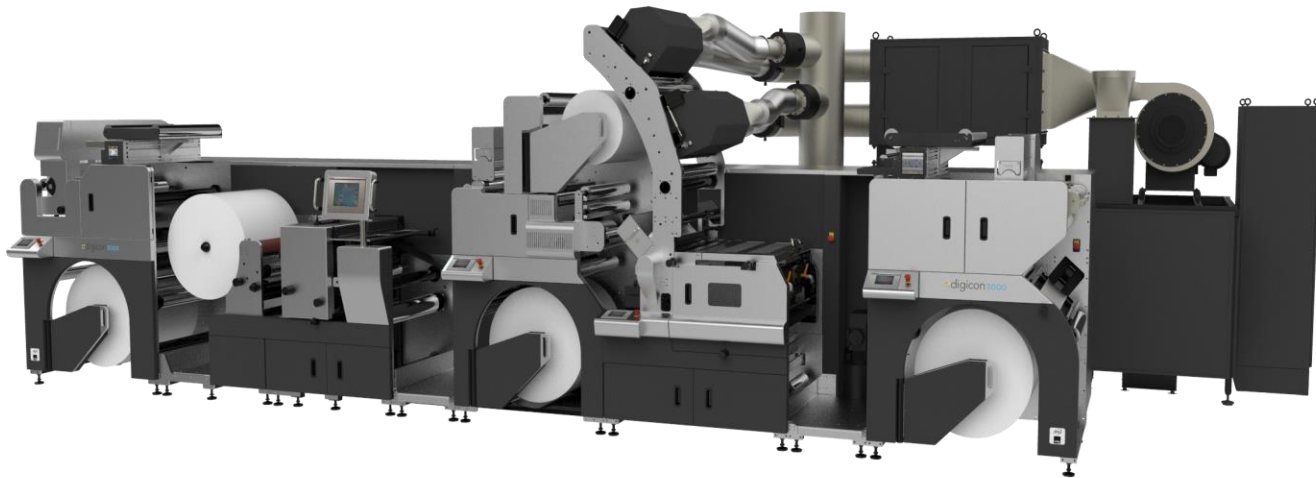
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HAPPY TO HELP



Find us in flexpack area 6786 or on the ABG booth 3223



Thank you, any questions?

